PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: KUSAMA PATENT OFFICE Attn. Kusama, Osamu 7F Iwata Bldg., 5-12, Iidabashi 4-chome, Chiyoda-ku Tokyo 102-0072 JAPAN 04,7.13

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Date of mailing (day/month/year) 14/06/2004

FOR FURTHER ACTION See paragraphs 1 and 4 below

International filing date (day/month/year) 11/03/2004

LTT BIO-PHARMA CO., LTD

Applicant's or agent's file reference

International application No.

PCT/JP2004/003246

LTT-85

Applicant

1.	X	The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.						
		Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.						
		Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascimile No.: (41–22) 740.14.35						
		For more detailed instructions, see the notes on the accompanying sheet.						
2.		The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.						
3.		With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:						
		the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.						
		The decision has been made yet on the protest, the applicant will be notified as soon as a decision is made.						
4.	Rem	inders						
	Shor	the offer the expiration of 18 months from the existing data, the international application will be published by the						

Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90*bis*.1 and 90*bis*.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority



European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk

Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Authorized officer

Eva Bohácová

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international politication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the International application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT.

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

International application No. International filling date (day/month/year) (1/103/2004 11/03/20	see Form PCT/ISA/220 where applicable, item 5 below.
pipicant This International Search Report has been prepared by this International Searching Authoria according to Article 18. A copy is being transmitted to the International Bureau. This International Search Report consists of a total of	Earliest) Priority Date (day/month/year)
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This International Search Report has been prepared by this International Searching Authoriac according to Article 18. A copy is being transmitted to the International Bureau. This International Search Report consists of a total of	
This International Search Report consists of a total of	
This International Search Report consists of a total of	ty and is transmitted to the applicant
It is also accompanied by a copy of each prior art document cited in this region. Basis of the report a. With regard to the language, the international search was carried out on the basis language in which it was filed, unless otherwise indicated under this item. The international search was carried out on the basis of a translation this Authority (Rule 23.1(b)). b. With regard to any nucleotide and/or amino acid sequence disclosed in the content of the content o	ly and is transmitted to the applicant
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2. Certain claims were found unsearchable (See Box III). 3. Unity of invention is lacking (see Box III). 4. With regard to the title, X the text is approved as submitted by the applicant. the text has been established by this Authority to read as follows: 5. With regard to the abstract, X the text is approved as submitted by the applicant. the text has been established, according to Rule 38.2(b), by this Authority a may, within one month from the date of mailing of this international search. 6. With regards to the drawings,	on of the international application furnished to
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a. the figure of the drawings to be published with the abstract is Figure No	
as suggested by the applicant.	
as selected by this Authority, because the applicant failed to sugge	
as selected by this Authority, because this figure better characteriz b. none of the figures is to be published with the abstract.	es the invention.

International Application No
PCT/JP2004/003246

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K9/51							
	According to International Patent Classification (IPC) or to both national classification and IPC						
	SEARCHED cumentation searched (classification system followed by classification	n symbols)					
IPC 7	A61K	, , ,					
Documentat	ion searched other than minimum documentation to the extent that su	ich documents are included in the fields se	arched				
Electronic d	ata base consulted during the international search (name of data bas	e and, where practical, search terms used)				
EPO-In	EPO-Internal, CHEM ABS Data, PAJ, WPI Data, MEDLINE, EMBASE, BIOSIS						
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT						
Category °	Citation of document, with indication, where appropriate, of the rele	vant passages	Relevant to claim No.				
Х	ALLEMANN, ERIC ET AL: "PEG-coate lactic acid) nanoparticles for the delivery of hexadecafluoro zinc	e	1-18				
	phthalocyanine to EMT-6 mouse mam tumors" JOURNAL OF PHARMACY AND PHARMACOL	OGY					
	(1995), 47(5), 382-7, 1995, XP009 abstract page 383, column 2, paragraph 2	031737					
	page 387, column 1, paragraph 2						
А	US 6 143 211 A (CHICKERING III DONALD ET 1-18 AL) 7 November 2000 (2000-11-07) the whole document						
		/					
X Furt	her documents are listed in the continuation of box C.	X Patent family members are listed in	n annex.				
° Special ca	ategories of cited documents :	*T* later document published after the inte					
consid	ent defining the general state of the art which is not dered to be of particular relevance	or priority date and not in conflict with cited to understand the principle or the invention	eory underlying the				
X document of particular relevance; the claimed invention filing date *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone							
citatio	which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or cited to involve an inventive step when the document is combined with one or more other such document.						
other means 'P' document published prior to the international filing date but later than the priority date claimed ments, such combination being obvious to a person skilled in the art. '&' document member of the same patent family							
<u> </u>	actual completion of the international search	Date of mailing of the international sea					
4	June 2004	14/06/2004					
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer					
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Hedegaard, A						

9

International Application No
PCT/JP2004/003246

C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	<u> </u>		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
A	WO 02/096396 A (HIGAKI MEGUMU ;KIMURA MICHIO (JP); IGARASHI RIE (JP); LTT INST CO) 5 December 2002 (2002-12-05) the whole document	1-18		
Α	EP 1 002 529 A (TAKEDA CHEMICAL INDUSTRIES LTD) 24 May 2000 (2000-05-24) the whole document	1-18		
A	US 5 989 463 A (BURKE PAUL A ET AL) 23 November 1999 (1999-11-23) the whole document	1-18		
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Information on patent family members

International Application No
PCT/JP2004/003246

	1				7, 2004), 003240
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			ΑU	695323 B2	13-08-1998
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			US	2002058622 A1	16-05-2002
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US 5989463	А	23-11-1999	US NO AT AU AU CA DE DE DK EP	2002058622 A1 971030 A 240718 T 746337 B2 9400998 A 2304662 A1 69814885 D1 69814885 T2 1017367 T3 1017367 A1	16-05-2002 06-03-1997
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US 5989463	———— А	23-11-1999	US NO AT AU AU CA DE DE DK EP	2002058622 A1 971030 A 240718 T 746337 B2 9400998 A 2304662 A1 69814885 D1 69814885 T2 1017367 T3 1017367 A1	16-05-2002 06-03-1997
US 5989463	———— А	23-11-1999	US NO AT AU CA DE DE DK EP ES	2002058622 A1 971030 A 240718 T 746337 B2 9400998 A 2304662 A1 69814885 D1 69814885 T2 1017367 T3 1017367 A1 2200375 T3	16-05-2002 06-03-1997

Information on patent family members

International Application No
PCT/JP2004/003246

Pa cited	tent document in search report		Publication date		Patent family member(s)		Publication date	
US	5989463	Α		US	6455074	B1	24-09-2002	
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PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) 26.03.2003 PCT/JP2004/003246 11.03.2004 International Patent Classification (IPC) or both national classification and IPC A61K9/51 Applicant LTT BIO-PHARMA CO., LTD 1. This opinion contains indications relating to the following items: Basis of the opinion Box No. I Box No. Ⅱ Priority ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited ☑ Box No. VII Certain defects in the international application ☐ Box No. VIII Certain observations on the international application **FURTHER ACTION** 2. If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:

Authorized Officer

<u>a</u>))

European Patent Office D-80298 Munich

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Fax: +49 89 2399 - 4465

Hedegaard, A

Telephone No. +49 89 2399-8644



10/550990 JC09 Rec'd PCT/PTO 26 SEP 2005.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2004/003246

	Box No. I Basis of the opinion						
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was field, unless otherwise indicated under this item.						
	This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).						
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:						
	a. type of material:						
	☐ a sequence listing						
	☐ table(s) related to the sequence listing						
	b. format of material:						
	☐ in written format						
	☐ in computer readable form						
	c. time of filing/furnishing:						
	☐ contained in the international application as filed.						
	☐ filed together with the international application in computer readable form.						
	☐ furnished subsequently to this Authority for the purposes of search.						
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.						
4.	Additional comments:						

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2004/003246

	Box	No. II	Priority				
1.	. The following document has not been furnished:						
		\boxtimes	copy of the earlier	application	n whose pr	iority has been claimed (Rule 43bis.1 and 66.7(a)).	
			translation of the ea	arlier appl	ication who	ose priority has been claimed (Rule 43bis.1 and 66.7(b)).	
		Conse neverth	quently it has not be neless been establis	en possib hed on the	le to conside assumpti	der the validity of the priority claim. This opinion has ion that the relevant date is the claimed priority date.	
2.		has be	pinion has been esta en found invalid (Ru ate indicated above	iles 43 <i>bis</i> .	1 and 64.1	rity had been claimed due to the fact that the priority claim). Thus for the purposes of this opinion, the international he relevant date.	
3.	Ado	ditional c	observations, if nece	ssary:		·	
	Po	k No. V	Possened states	mont und	or Rulo 43	bis.1(a)(i) with regard to novelty, inventive step or	
			applicability; citation	ons and e	explanation	ns supporting such statement	
1.	Sta	tement					
	Nov	elty (N)	1	Yes:	Claims	17-18	
				No:	Claims	1-16	
	Inve	entive st	tep (IS)	Yes:	Claims		
				No:	Claims	1-18	
	Indi	ustrial a	pplicability (IA)	Yes:	Claims	1-18	
				No:	Claims		
2.	Cita	ations a	nd explanations				
	see	e separa	ate sheet				
_	Во	x No. V	II Certain defects	in the in	ternationa	l application	

The following defects in the form or contents of the international application have been noted:

see separate sheet

Re Item V.

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- 1 The following document is referred to in this communication:
 - D1: ALLEMANN, ERIC ET AL: "PEG-coated poly (lactic acid) nanoparticles for the delivery of hexadecafluoro zinc phthalocyanine to EMT-6 mouse mammary tumors" JOURNAL OF PHARMACY AND PHARMACOLOGY (1995), 47(5), 382-7, 1995, XP009031737
- Document D1 discloses PEG-coated PLA nanoparticles for the intravenous delivery of ZnPcF₁₆ (see D1, p. 382, abstract; p. 383, col. 2, par. 2; p. 384, col. 1, par. 2; and p. 387, col. 1, par. 2). It appears that ZnPcF₁₆ can be considered a low-molecular weight, water-soluble and non-peptide drug made hydrophobic by a metal ion and, consequently, the subject-matter of present claim 1 is not novel (Article 33(2) PCT) over D1.
- The same as above under item 2 applies mutatis mutandis to independent claim 9.
- The subject-matter of claim 17 is novel (Article 33(2) PCT) since there is no disclosure in D1 of an anti-inflammatory/anti-rheumatoid drug.
- Document D1, which is considered to represent the most relevant state of the art, discloses nanoparticles from which the subject-matter of claim 17 differs in that it comprises an anti-inflammatory/anti-rheumatoid drug. However, this slight amendment does not appear to be accompanied by any non-obvious effect (D1 has already disclosed the improvement in targeted drug delivery when using surfactant-coated PLA nanoparticles) and can be carried out by the person skilled in the art without having to resort to inventive skill. Therefore, the subject-matter of claim 17 is not considered to involve an inventive step (Art. 33(3) PCT).
- A positive international preliminary report for the subject-matter of the dependent claims can only be established when they refer to independent claims which meet

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/JP2004/003246

the requirements of the PCT.

Re item VII.

1. The term "low" used in claims 1 and 9 is vague and unclear and leaves the reader in doubt as to the meaning of the technical feature to which it refers, thereby rendering the definition of the subject-matter of said claim/s unclear, Article 6 PCT (see claim 3 for a clear definition).